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(541) 383-9310 FAX 382-7588

Work Order #: M107031, P160876

CLIENT: Bristol		INVOICE TO: Bristol										TURNAROUND REQUEST in Business Days*					
REPORT TO: Anne Krawawetla		P.O. NUMBER: 21090										Organic & Inorganic Analyses					
ADDRESS: Anchitka Island, AK												10	7	5	4	3	2
PHONE: 907 770-0974		FAX: 770-0975		REQUESTED ANALYSES										STD. Petroleum Hydrocarbon Analyses			
PROJECT NAME: Anchitka												STD. Please Specify					
PROJECT NUMBER: 21090												OTHER					
SAMPLED BY: CSM / DJV												*Turnaround Requests less than standard may incur Rush Charges.					
CLIENT SAMPLE IDENTIFICATION		SAMPLING DATE/TIME												MATRIX (W, S, O)	# OF CONT.	COMMENTS	NCA WORK ID
1 DIAM F701SL		7/14/01 1040												S	2		
2 DIAM F702SL		7/14/01 1045												S	2		
3.																	
4.																	
5.																	
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12.																	
13.																	
14.																	
15.																	
RELINQUISHED BY: Charlie Marshall		FIRM: Bristol		DATE: 7/14/01		TIME: 1627		RECEIVED BY: Stephen Lee		FIRM: WEA		DATE: 7/14/01		TIME: 1627			
RELINQUISHED BY:		FIRM:		DATE:		TIME:		RECEIVED BY:		FIRM:		DATE:		TIME:			
PRINT NAME:		FIRM:		DATE:		TIME:		PRINT NAME:		FIRM:		DATE:		TIME:			
ADDITIONAL REMARKS: F-7 Candles @ Transmitter site														TEMP:		PAGE OF	



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541.383.9310 fax 541.382.7588

7 December, 2001

Anne Kranawetter
Bristol Environmental & Engineering
2000 W International Airport C#1
Anchorage, AK 99502-1116

RE: Amchitka

Enclosed are the results of analyses for samples received by the laboratory on 07/14/01 16:27. If you have any questions concerning this report, please feel free to contact me.

This report was recreated from a previously issued final report in order to provide an electronic copy. The final report used for these electronic copies may have been previously issued as an amended report due to client requested changes to sample names, etc. No data has changed since submission of the previously issued final, or amended, report.

Sincerely,

Stephen Wilson
Environmental Group Leader

Work Orders included in this report:

M107031



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Bristol Environmental & Engineering
2000 W International Airport C#1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
07/24/01 15:48

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
01AMF701SL	M107031-01	Soil	07/14/01 10:40	07/14/01 16:27
01AMF702SL	M107031-02	Soil	07/14/01 10:45	07/14/01 16:27

COC #173

Ni will be reported from fix lab.

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

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Environmental Laboratory Network

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Bristol Environmental & Engineering
2000 W International Airport C#1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
07/24/01 15:48

Diesel Hydrocarbons (C10-C25) per AK102
North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
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01AMF701SL (M107031-01) Soil

Sampled: 07/14/01 Received: 07/14/01

Diesel Range Organics	ND	150	mg/kg dry	1	AK 102	07/15/01	07/15/01	0107056	
Surr: 1-Chlorooctadecane	86.0 %	50-150							
Surr: Triacontane	86.3 %	50-150							

01AMF702SL (M107031-02) Soil

Sampled: 07/14/01 Received: 07/14/01

Diesel Range Organics	ND	150	mg/kg dry	1	AK 102	07/15/01	07/15/01	0107056	
Surr: 1-Chlorooctadecane	68.0 %	50-150							
Surr: Triacontane	91.0 %	50-150							

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

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Bristol Environmental & Engineering
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Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
07/24/01 15:48

BTEX, MTBE and Naphthalene per EPA Method 8021B

North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
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01AMF701SL (M107031-01) Soil

Sampled: 07/14/01 Received: 07/14/01

Benzene	ND	0.0571	mg/kg dry	50	1B BTEX/MTI	07/16/01	07/16/01	0107064	
Toluene	ND	0.228	"	"	"	"	"	"	
Ethylbenzene	ND	0.228	"	"	"	"	"	"	
Xylenes (total)	ND	0.456	"	"	"	"	"	"	
Naphthalene	ND	2.28	"	"	"	"	"	"	

Surr: 4-BFB 88.7 % 50-150

01AMF702SL (M107031-02) Soil

Sampled: 07/14/01 Received: 07/14/01

Benzene	ND	0.0573	mg/kg dry	50	1B BTEX/MTI	07/16/01	07/16/01	0107064	
Toluene	ND	0.229	"	"	"	"	"	"	
Ethylbenzene	ND	0.229	"	"	"	"	"	"	
Xylenes (total)	ND	0.458	"	"	"	"	"	"	
Naphthalene	ND	2.29	"	"	"	"	"	"	

Surr: 4-BFB 86.1 % 50-150

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

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Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
07/24/01 15:48

Total Metals per EPA 6000/7000 Series Methods
North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMF701SL (M107031-01) Soil					Sampled: 07/14/01 Received: 07/14/01				
Arsenic	ND	2.25	mg/kg dry	1	EPA 6020	07/22/01	07/23/01	0107081	
Barium	11.7	2.25	"	"	"	"	"	"	
Cadmium	ND	2.25	"	"	"	"	"	"	
Chromium	18.1	2.25	"	"	"	"	"	"	
Lead	ND	2.25	"	"	"	"	"	"	
Selenium	ND	2.25	"	"	"	"	"	"	
Silver	ND	2.25	"	"	"	"	"	"	
Vanadium	63.0	2.25	"	"	"	"	"	"	
Mercury	ND	0.00424	"	"	EPA 1631	07/20/01	07/21/01	0107076	

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

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Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
07/24/01 15:48

Physical Parameters per APHA/ASTM/EPA Methods
North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMF701SL (M107031-01) Soil					Sampled: 07/14/01 Received: 07/14/01				
% Solids	89.4	0.0100 % by Weight		1	Gravimetric	07/15/01	07/16/01	0107063	
01AMF702SL (M107031-02) Soil					Sampled: 07/14/01 Received: 07/14/01				
% Solids	89.8	0.0100 % by Weight		1	Gravimetric	07/15/01	07/16/01	0107063	

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

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Bristol Environmental & Engineering
2000 W International Airport C#1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
07/24/01 15:48

Diesel Hydrocarbons (C10-C25) per AK102 - Quality Control

North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 0107056 - 3545 ASE

Blank (0107056-BLK1)

Prepared & Analyzed: 07/15/01

Diesel Range Organics	ND	150	mg/kg wet						
Surr: 1-Chlorooctadecane	22.1		"	23.7		93.2	50-150		
Surr: Triacontane	22.4		"	23.5		95.3	50-150		

LCS (0107056-BS1)

Prepared & Analyzed: 07/15/01

Diesel Range Organics	1120	150	mg/kg wet	1250		89.6	75-125		
Surr: 1-Chlorooctadecane	25.6		"	23.7		108	50-150		
Surr: Triacontane	23.8		"	23.5		101	50-150		

LCS Dup (0107056-BSD1)

Prepared & Analyzed: 07/15/01

Diesel Range Organics	1340	150	mg/kg wet	1250		107	75-125	17.9	20
Surr: 1-Chlorooctadecane	17.5		"	23.7		73.8	50-150		
Surr: Triacontane	21.3		"	23.5		90.6	50-150		

Matrix Spike (0107056-MS1)

Source: M107030-01

Prepared & Analyzed: 07/15/01

Diesel Range Organics	1530	150	mg/kg dry	1330	ND	114	60-140		
Surr: 1-Chlorooctadecane	16.9		"	25.2		67.1	50-150		
Surr: Triacontane	24.0		"	25.0		96.0	50-150		

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

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Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
07/24/01 15:48

BTEX, MTBE and Naphthalene per EPA Method 8021B - Quality Control

North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 0107064 - MeOH Extraction

Blank (0107064-BLK1)

Prepared & Analyzed: 07/16/01

Benzene	ND	0.0250	mg/kg wet
Toluene	ND	0.100	"
Ethylbenzene	ND	0.100	"
Xylenes (total)	ND	0.200	"
Naphthalene	ND	1.00	"

Surr: 4-BFB 2.61 " 2.50 104 50-150

LCS (0107064-BS1)

Prepared & Analyzed: 07/16/01

Benzene	2.39	0.0250	mg/kg wet	2.50	95.6	69-138
Toluene	2.53	0.100	"	2.50	101	53-151
Ethylbenzene	2.52	0.100	"	2.50	101	61-141
Xylenes (total)	7.73	0.200	"	7.50	103	62-141
Naphthalene	3.09	1.00	"	2.50	124	65-135

Surr: 4-BFB 2.76 " 2.50 110 50-150

North Creek Analytical - Mobile Lab

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Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
07/24/01 15:48

Total Metals per EPA 6000/7000 Series Methods - Quality Control

North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 0107076 - EPA 1631

Blank (0107076-BLK1)

Prepared: 07/20/01 Analyzed: 07/21/01

Mercury ND 0.00500 mg/kg wet

LCS (0107076-BS1)

Prepared: 07/20/01 Analyzed: 07/21/01

Mercury 0.0108 0.00500 mg/kg wet 0.0100 108 85-115

Duplicate (0107076-DUP1)

Source: M107031-01

Prepared: 07/20/01 Analyzed: 07/21/01

Mercury ND 0.00500 mg/kg dry ND 20.1 20 Q-06

Matrix Spike (0107076-MS1)

Source: M107031-01

Prepared: 07/20/01 Analyzed: 07/21/01

Mercury 0.00875 0.00455 mg/kg dry 0.0102 ND 47.6 75-125 Q-02

Batch 0107081 - EPA 3050

Blank (0107081-BLK1)

Prepared: 07/22/01 Analyzed: 07/23/01

Arsenic ND 2.50 mg/kg wet
Barium ND 2.50 "
Cadmium ND 2.50 "
Chromium ND 2.50 "
Lead ND 2.50 "
Selenium ND 2.50 "
Silver ND 2.50 "
Vanadium ND 2.50 "

LCS (0107081-BS1)

Prepared: 07/22/01 Analyzed: 07/23/01

Arsenic 11.2 2.50 mg/kg wet 10.0 112 80-120
Barium 10.5 2.50 " 10.0 105 80-120
Cadmium 11.2 2.50 " 10.0 112 80-120
Chromium 9.83 2.50 " 10.0 98.3 80-120
Lead 9.89 2.50 " 10.0 98.9 80-120
Selenium 10.5 2.50 " 10.0 105 80-120
Silver 11.4 2.50 " 10.0 114 80-120
Vanadium 9.46 2.50 " 10.0 94.6 80-120

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

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Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
07/24/01 15:48

Total Metals per EPA 6000/7000 Series Methods - Quality Control

North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 0107081 - EPA 3050

Duplicate (0107081-DUP1)

Source: M107031-01

Prepared: 07/22/01 Analyzed: 07/23/01

Arsenic	ND	2.50	mg/kg dry	ND			30.0	40	
Barium	12.9	2.50	"		11.7		9.76	40	
Cadmium	ND	2.50	"		ND			40	
Chromium	20.7	2.50	"		18.1		13.4	40	
Lead	ND	2.50	"		ND		26.5	40	
Selenium	ND	2.50	"		ND			40	
Silver	ND	2.50	"		ND		16.5	40	
Vanadium	66.9	2.50	"		63.0		6.00	40	

Matrix Spike (0107081-MS1)

Source: M107031-01

Prepared: 07/22/01 Analyzed: 07/23/01

Arsenic	12.4	2.25	mg/kg dry	10.1	ND	107	75-125		
Barium	22.4	2.25	"	10.1	11.7	106	75-125		
Cadmium	10.9	2.25	"	10.1	ND	108	75-125		
Chromium	28.9	2.25	"	10.1	18.1	107	75-125		
Lead	9.32	2.25	"	10.1	ND	81.3	75-125		
Selenium	9.31	2.25	"	10.1	ND	92.2	75-125		
Silver	10.3	2.25	"	10.1	ND	102	75-125		
Vanadium	74.0	2.25	"	10.1	63.0	109	75-125		

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

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Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
07/24/01 15:48

Notes and Definitions

Q-02 The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.

Q-06 Analyses are not controlled on RPD values from sample concentrations less than 5 times the reporting limit.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis. MRLs are adjusted if %Solids are less than 50%.

wet Sample results reported on a wet weight basis (as received)

RPD Relative Percent Difference

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

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10 of 10

Items for Project Manager Review

LabNumber	Analysis	Analyte	Exception
			Report recreated from: \\sisters\elmnt\Report\M107031 FINAL 07 24 01 1548.mdb Default Report (not modified)
0107076-DUP1	Hg Total CVAF 1631	Mercury	Q-06
0107076-DUP1	Hg Total CVAF 1631	Mercury	Exceeds RPD limit
0107076-MS1	Hg Total CVAF 1631	Mercury	Q-02
0107076-MS1	Hg Total CVAF 1631	Mercury	Exceeds lower control limit